

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexascins, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/537,885	06/07/2005	Benoit Agnus	FR 020137	7222	
65913 NXP, B, V.	7590 02/11/2009 EXAMINER		IINER		
NXP INTELLECTUAL PROPERTY DEPARTMENT			PHAM,	PHAM, TUAN	
M/S41-SJ 1109 MCKA	Y DRIVE		ART UNIT PAPER NUMBER		
SAN JOSE, CA 95131			2618	•	
			NOTIFICATION DATE	DELIVERY MODE	
			02/11/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Application No. Applicant(s) 10/537.885 AGNUS ET AL. Office Action Summary Examiner Art Unit

	10/	AN A. FHAW	2010	
Period fo	The MAILING DATE of this communication appears or Reply	on the cover sheet with the c	orrespondence ad	dress
WHIC - Exter after - If NO - Failu Any	HORTENED STATUTORY PERIOD FOR REPLY IS: CCHEVER IS LONGER, FROM THE MAILING DATE insoons of time may be available under the provisions of 37 CFR 1.3560, O period for reply is specified above, the maximum statutory period will appure to reply with the set or extended period for reply by the Office later than three months after the mailing date one departed may display the Office later than three months after the mailing date one departed may displayment. See 37 CFR 1.704(b).	OF THIS COMMUNICATION In no event, however, may a reply be tin ally and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this or D (35 U.S.C. § 133).	
Status				
1)🛛	Responsive to communication(s) filed on 22 Januar	ry 2009.		
	This action is FINAL . 2b)⊠ This action			
3)□	Since this application is in condition for allowance e closed in accordance with the practice under Ex pa			merits is
Disposit	tion of Claims			
4)⊠	Claim(s) 1-20 is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from	om consideration.		
5)	Claim(s) is/are allowed.			
	Claim(s) <u>1-20</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)[_]	Claim(s) are subject to restriction and/or elec	ction requirement.		
Applicat	tion Papers			
9)	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are: a)☐ accepted	d or b) objected to by the I	Examiner.	
	Applicant may not request that any objection to the drawi	•.,		
11)□	Replacement drawing sheet(s) including the correction is The oath or declaration is objected to by the Examir			
Priority (under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign prior □ All b) □ Some * c) □ None of:	rity under 35 U.S.C. § 119(a)	-(d) or (f).	
	1. Certified copies of the priority documents have			
	2. Certified copies of the priority documents have			
	Copies of the certified copies of the priority decrease of the pri		ed in this National	Stage
* 0	application from the International Bureau (PC See the attached detailed Office action for a list of the	,		
	See the attached detailed Office action for a list of the	e certined copies not receive	u.	
Attachmen	nt(s)			
1) Notice	ice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	

	Notice of References Cited (PTO-892)
2)	Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SE/08) Paper No(s)/Mail Date _____.

4) [Interview Summary (PTO-413)
	Paper No(s)/Mail Date
5)	Notice of Informal Patent Application
6)	Other:

Part of Paper No./Mail Date 20090205

Application/Control Number: 10/537,885 Page 2

Art Unit: 2618

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/22/2009 has been entered.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2618

Claims 1, 5, 8, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henriksson, Markku (WO 02/13427 A1, hereinafter, "Henriksson") in view of Hane (Patent No.: US 4,728,955).

Regarding claims 1, 5, and 8, Henriksson teaches an integrated circuit Comprising (see figure 2, test module 200, [0005]):

a signal transmission channel (TX) including radio frequencies (see figure 2, transmitter 200 transmit the RF signal to base station); and

an integrated tester to test radio characteristics of said integrated circuit (see figure 2, transmitter 100, test module 200, a test module 200 for testing the transmitter and receiver which can be integrated microcircuit [0005, 0012]), wherein the tester is independent of the signal transmission channel (see figure 2, it is clearly seen that the test module 200 is separated from the transmission path).

It should be noticed that Henriksson fails to teach first means for recovering a part of a signal generated by the transmission channel (TX) at a first frequency, second means for converting said recovered signal from the first frequency into a second frequency, an amplifier for amplifying said signal at this second frequency, and a rectifier for rectifying said signal. However, Hane teaches first means for recovering a part of a signal generated by the transmission channel (TX) at a first frequency (see figure 10, directional coupling 15, col.6, ln.48-65), second means for converting said recovered signal from the first frequency into a second frequency (see figure 10, mixer 21, col.6, ln.48-65), an amplifier for amplifying said signal at this second frequency (see figure 10, amplifier 25', col.6, ln.48-65), and a rectifier for rectifying said signal (see

Art Unit: 2618

figure 10, rectifier 30, col.6, ln. 48-65, it is clearly seen that the coupling 15, mixer 21, amplifier 25', and rectifier 30 are separate path from transmission path). Since both of Henriksson and Hane teach a transceiver. Henriksson further disclose a test module. It is well known in the art to combine the known elements such as a coupler, mixer, amplifier, and rectifier into the test module of Henriksson to arrive the claimed invention.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Hane into view of Henriksson in order to communicate in a short range.

Regarding claim 11, Henriksson further teaches a tester (see figure 2, test module 200).

4. Claims 2-4, 6-7, and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henriksson, Markku (WO 02/13427 A1, hereinafter, "Henriksson") in view of Hane (Patent No.: US 4,728,955) as applied to claims 1, 5, and 8 above, and further in view of Asam et al. (Patent No.: US 6,853,836, hereinafter, "Asam").

Regarding claims 2, 6, and 9, Henriksson and Hane, in combination, fails to teach detection means for detecting the validity of the signal generated by the transmission channel. However, Asam teaches detection means for detecting the validity of the signal generated by the transmission channel (see frequency detector PFD, col.6, In.1-2).

Art Unit: 2618

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Asam into view of Henriksson and Hane in order to provide a low energy needs for the device as suggested by Asam at col.1, In.29-31.

Regarding claims 3, 7, and 10, Asam further teaches a filter for filtering harmonics signal (see filter TP).

Regarding claim 4, Asam further teaches the first frequency (RF) is a radio frequency and the second frequency (IF) is a low frequency (see col.6, ln.1-45).

5. Claims 12-13, 17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henriksson, Markku (WO 02/13427 A1, hereinafter, "Henriksson") in view of Hane (Patent No.: US 4,728,955) as applied to claims 1, 5, and 8 above, and further in view of Johnson (Patent No.: US 6,766,150).

Regarding claims 12, Henriksson and Hane, in combination, fails to teach said tester is further configured to output a comparison signal separately from said signal transmission channel. However, Johnson teaches said tester is further configured to output a comparison signal separately from said signal transmission channel (see figure 4, calibrator controller 365 compare the calibrator in the feedback loop that separated from the transmit path, see col.9, In.34-43).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Johnson into view of Henriksson and Hane in order to adjust the transmit signal.

Art Unit: 2618

Regarding claims 13, Johnson further teaches said tester is further configured to output the comparison signal along a signal path separate from an antenna signal path (see figure 4, calibrator controller 365 compare the calibrator in the feedback loop that separated from the antenna, see col.9, In.34-43).

Regarding claims 17 and 20, Johnson further teaches outputting a comparison signal separately from said signal transmission channel along a signal path separate from an antenna signal path (see figure 4, calibrator controller 365 compare the calibrator in the feedback loop that separated from the transmit path and antenna, see col.9, In.34-43).

6. Claims 14 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henriksson, Markku (WO 02/13427 A1, hereinafter, "Henriksson") in view of Hane (Patent No.: US 4,728,955) as applied to claims 1 and 5 above, and further in view of Kim et al. (Patent No.: US 6,313,644, hereinafter, "Kim").

Regarding claims 14 and 18, Henriksson and Hane, in combination, fails to teach said first means is further configured to recover about 1/1000 of the signal generated by the transmission channel, wherein the first means possesses an attenuation of about 30 dB. However, Kim teaches said first means is further configured to recover about 1/1000 of the signal generated by the transmission channel, wherein the first means possesses an attenuation of about 30 dB (see col.2, In.21-32).

Art Unit: 2618

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Kim into view of Henriksson and Hane in order to improve the transmission.

7. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henriksson, Markku (WO 02/13427 A1, hereinafter, "Henriksson") in view of Hane (Patent No.: US 4,728,955), and Asam et al. (Patent No.: US 6,853,836, hereinafter, "Asam") as applied to claim 1 above, and further in view of Rodgers et al. (Pub. No.: US 2002/0011932, hereinafter, "Rodgers").

Regarding claim 15, Henriksson, Hane, and Asam, in combination, fails to teach the detection means is configured to detect the validity of a power level of the signal generated by the transmission channel to verify that the power level is within an expected range. However, Rodgers teaches the detection means is configured to detect the validity of a power level of the signal generated by the transmission channel to verify that the power level is within an expected range (see [0066]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Rodgers into view of Henriksson, Hane, and Asam in order to improve the transmission.

Regarding claim 16, Rodgers further teaches the detection means is configured to detect a spectral purity of the signal generated by the transmission channel (see [0066]).

Art Unit: 2618

8. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Henriksson, Markku (WO 02/13427 A1, hereinafter, "Henriksson") in view of Hane
(Patent No.: US 4,728,955) as applied to claim 5 above, and further in view of

Rodgers et al. (Pub. No.: US 2002/0011932, hereinafter, "Rodgers").

Regarding claim 19, Henriksson and Hane, in combination, fails to teach the detection means is configured to detect the validity of a power level of the signal generated by the transmission channel to verify that the power level is within an expected range. However, Rodgers teaches the detection means is configured to detect the validity of a power level of the signal generated by the transmission channel to verify that the power level is within an expected range (see [0066]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Rodgers into view of Henriksson and Hane in order to improve the transmission.

Application/Control Number: 10/537,885 Page 9

Art Unit: 2618

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/TUAN A PHAM/

Primary Examiner, Art Unit 2618

Application/Control Number: 10/537,885 Page 10

Art Unit: 2618